TOSHIBA Diode Silicon Epitaxial Planar Type

# JDV2S02S

## VCO for UHF band

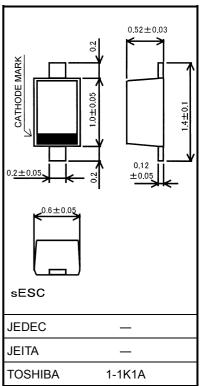
• High capacitance ratio:  $C_{1V}/C_{4V} = 2.0$  (typ.)

**Electrical Characteristics (Ta = 25°C)** 

- Low series resistance:  $r_s = 0.6 \Omega$  (typ.)
- This device is suitable for use in a small-size tuner.

#### Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit	
Reverse voltage	V <sub>R</sub>	10	V	
Junction temperature	Тj	150	°C	
Storage temperature range	T <sub>stg</sub>	-55~150	°C	



Weight: 0.0011 g (typ.)

Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Reverse voltage	V <sub>R</sub>	$I_R = 1 \ \mu A$	10			V
Reverse current	I <sub>R</sub>	V <sub>R</sub> = 10 V	_	_	3	nA
Capacitance	C <sub>1V</sub>	V <sub>R</sub> = 1 V, f = 1 MHz	1.8	2.05	2.3	pF
	C <sub>4V</sub>	$V_R = 4 V, f = 1 MHz$	0.83	1.03	1.23	
Capacitance ratio	C <sub>1V</sub> /C <sub>4V</sub>	—	1.8	2	2.2	_
Series resistance	r <sub>s</sub>	V <sub>R</sub> = 1 V, f = 470 MHz	_	0.6	0.8	Ω

Note: Signal level when capacitance is measured.  $V_{\mbox{sig}}=100\mbox{ mVrms}$ 

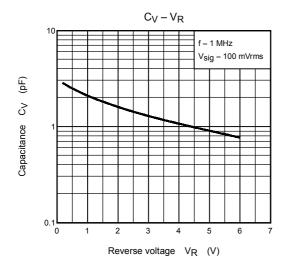
## Marking

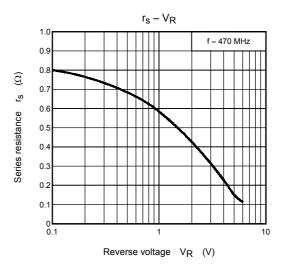


Unit: mm

2002-01-23

# **TOSHIBA**





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